

FIG. 1

virus	potency of virus		
	pre-exam	treatment	control(non-treatment)
infectious bronchitis virus boated 42 strain (Coronaciridae)	$10^{3.5}$	$<10^{1.5}$	$10^{5.5}$
influenza type A virus(Aichi strain)	$10^{7.5}$	$10^{2.5}$	$10^{6.5}$
influenza type A virus(499 strain)	$10^{8.5}$	$10^{3.5}$	$10^{7.5}$
Newcastle disease virus	$10^{9.5}$	$10^{2.5}$	$10^{7.5}$

FIG. 2

No.	試料(サンプル)名	ingredient [chemical formula]	mean particle diameter (μm)	specific surface area (m^2/g)	remark
1	CaO	calcium oxide [CaO]	9.257	0.697	KISIDA CHEMICAL CO., LTD. for chemical use (for test and/or research use) guaranteed
2	Ca(OH) ₂	calcium hydroxide [Ca(OH) ₂]	4.903	10.16	KISIDA CHEMICAL CO., LTD. for chemical use (for test and/or research use) guaranteed
	Ca(OH) ₂	calcium hydroxide [Ca(OH) ₂]	5.882	9.42	WAKO PURE CHEMICALS INDUSTRIES, LTD. for chemical use (for test and/or research use) guaranteed
3	MgO	magnesium oxide [MgO]	2.498	37.13	WAKO PURE CHEMICALS INDUSTRIES, LTD. for chemical use (for test and/or research use) guaranteed
4	Mg(OH) ₂	magnesium hydroxide [Mg(OH) ₂]	4.000	13.90	WAKO PURE CHEMICALS INDUSTRIES, LTD. for chemical use (for test and/or research use) guaranteed
5	MgO(heavy)	magnesium oxide [MgO]	10.889	5.38	WAKO PURE CHEMICALS INDUSTRIES, LTD. for chemical use (for test and/or research use) guaranteed
6	MgO(heavy) - 10 μm	magnesium oxide [MgO]	2.410	23.60	WAKO PURE CHEMICALS INDUSTRIES, LTD. for chemical use (for test and/or research use) guaranteed
7	hydrated lime	calcium hydroxide [Ca(OH) ₂]	4.850	11.71	UEDA LIME CO., LTD.
8	dolomite	dolomite [MgCO ₃ · CaCO ₃]	19.746	0.919	UEDA LIME CO., LTD.
9	Ca : Mg = 1 : 1	calcium hydroxide [Ca(OH) ₂] magnesium oxide [Mg(OH) ₂]	4.663	10.70	WAKO PURE CHEMICALS INDUSTRIES, LTD. mole ratio equivalent mixture
10	the agent according to the present invention		2.516	18.43	MOCHIGASE ELECTRICAL EQUIPMENT CO., LTD. non-surface treatment mean particle diameter: 2.5 μm
11	the agent according to the present invention		14.694	13.26	MOCHIGASE ELECTRICAL EQUIPMENT CO., LTD. non-surface treatment mean particle diameter: 2.5 μm

FIG. 3

No.	sample	fine ¹ concentration (w%)	the number of days after preparation	pH value	rate of dilution							
					10 ²	10 ³	10 ⁴	10 ⁵	10 ⁶	10 ⁷	10 ⁸	10 ⁹
1	CaO	0.3	14	11.1	—	—	3/3	3/3	3/3	3/3	—	—
2	Ca(OH) ₂	0.3	14	11.4	—	—	—	3/3	3/3	3/3	—	—
				12.2	—	3/3	2/3	1/3	0/3	0/3	0/3	—
				11.5	—	—	3/3	3/3	0/3	0/3	—	—
3	MgO	0.17		12.0	—	—	3/3	2/3	0/3	—	—	—
4	Mg(OH) ₂	0.3		10.0	—	—	—	—	3/3	3/3	3/3	—
5	MgO(heavy)	0.3		8.8	—	—	—	—	3/3	3/3	2/3	—
6	MgO(heavy) — 10 μm	0.3		9.1	—	—	3/3	3/3	3/3	3/3	1/3	—
7	hydrated lime	0.3		9.7	—	—	3/3	3/3	3/3	3/3	1/3	—
		0.17		12.3	—	—	3/3	1/3	0/3	—	—	—
8	dolomite	0.3		11.5	—	—	—	3/3	2/2	0/3	—	—
		0.3		7.8	—	—	3/3	3/3	3/3	3/3	3/3	—
9	Ca : Mg = 1 : 1	0.3	14	12.1	—	3/3	3/3	2/2	0/3	0/3	0/3	—
		0.3		11.2	—	—	—	—	3/3	3/3	—	—
10	the agent according to the present invention	0.3		11.8	—	—	—	—	3/3	2/3	0/3	—
				12.0	—	3/3	3/3	0/3	0/3	0/3	0/3	—
				11.7	—	—	2/3	0/3	0/3	—	—	—
11	the agent according to the present invention	0.3	14	11.7	—	—	—	3/3	3/3	—	—	—
				12.0	—	—	3/3	1/3	0/3	—	—	—
12	Control (PBS)	1/10 Concentration		12.0	—	—	3/3	2/3	0/3	0/3	—	—
				8.0	—	—	—	—	—	3/3	1/3	0/3
				7.9	—	—	—	—	—	3/3	1/3	0/3
13	supernatant liquid of sample No.10			7.8	—	—	—	—	—	3/3	1/3	0/3
14	titration			8.9	—	3/3	3/3	3/3	0/3	0/3	0/3	—

※ the result of infection—the number of eggs infected/ the number of eggs inoculated with
a virus

FIG. 4

No.	sample	mean particle diameter (μm)	final concentration (w%)	the number of days after preparation	pH value	(EID ₅₀ /0.2ml) 10 min.
1	CaO	9.257	0.3	14	11.1	107.50 <
					11.4	107.50 <
2	Ca(OH) ₂	5.382	0.3	14	12.2	104.50
					11.5	105.50
3	MgO	2.498	0.17		12.0	105.25
4	Mg(OH) ₂	4.000	0.3		10.0	108.50 <
5	MgO (heavy)	10.889	0.3		8.8	108.34 <
6	MgO (heavy) — 10 μm	2.410	0.3		9.1	107.75
					9.7	107.75
7	hydrated lime	4.850	0.3		12.3	104.75
			0.17		11.5	108.50
8	dolomite	19.746	0.3		7.8	108.50 <
					12.1	105.50
9	Ca : Mg = 1 : 1	4.663	0.3	14	11.2	107.50 <
					11.8	105.25
					12.0	104.50
10	the agent according to the present invention	2.516	0.3		11.7	104.24
				14	11.7	106.50 <
					12.0	105.00
11	the agent according to the present invention	14.594	0.3		12.0	105.50
12	Control (PBS)		1/10 Concentration		8.0	107.75
					7.9	107.75
					7.8	107.75
13	supernatant liquid of sample No. 10				8.9	108.00
14	titration :					108.24

FIG. 5

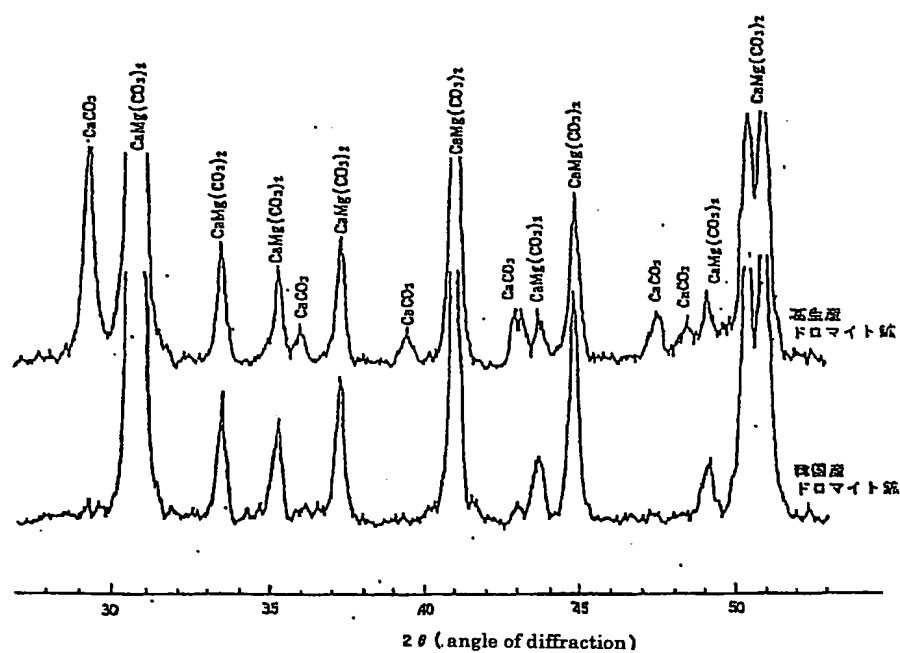


FIG. 6

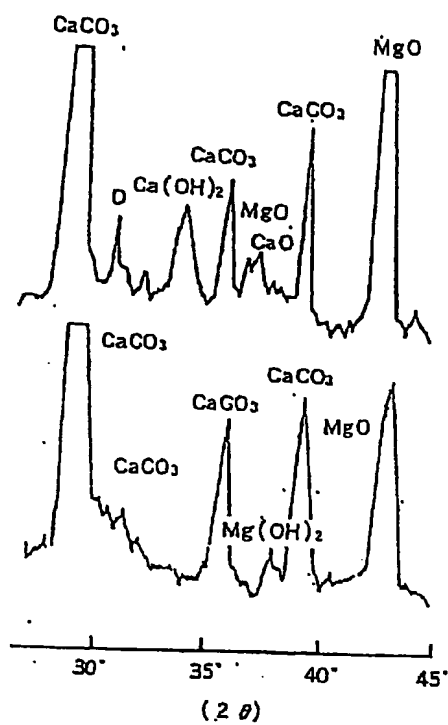


FIG. 7

the result of X-ray diffraction method Sample BR-P3

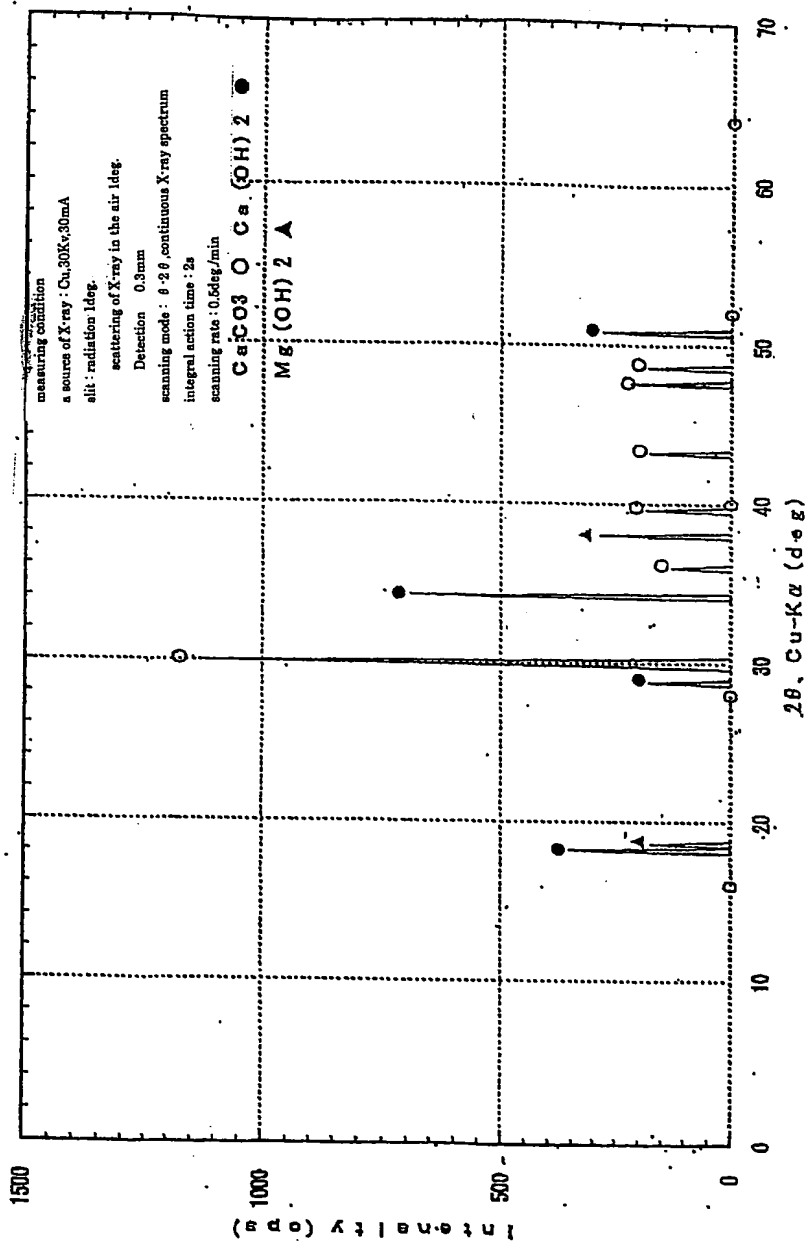


FIG. 8

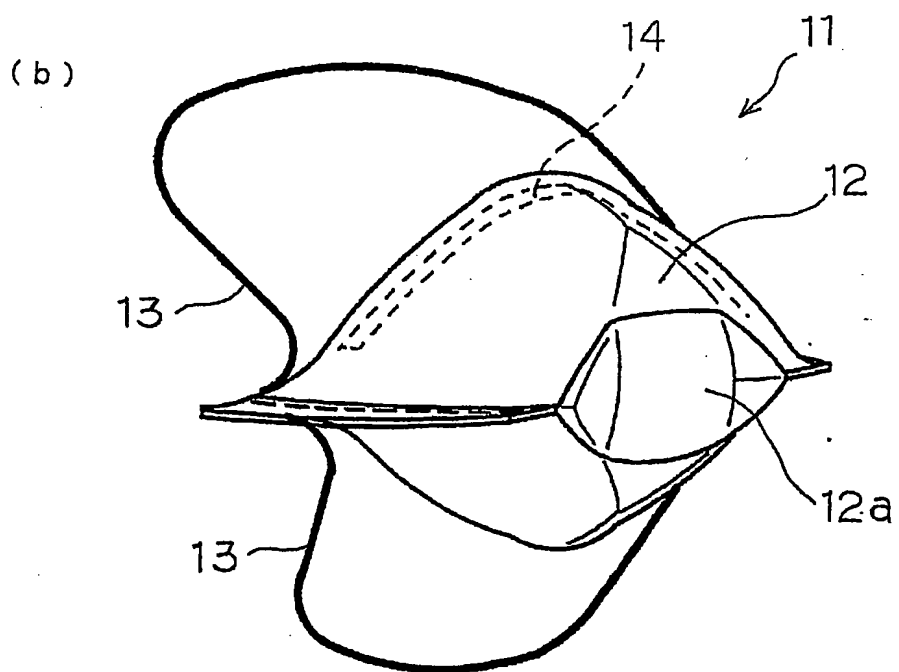
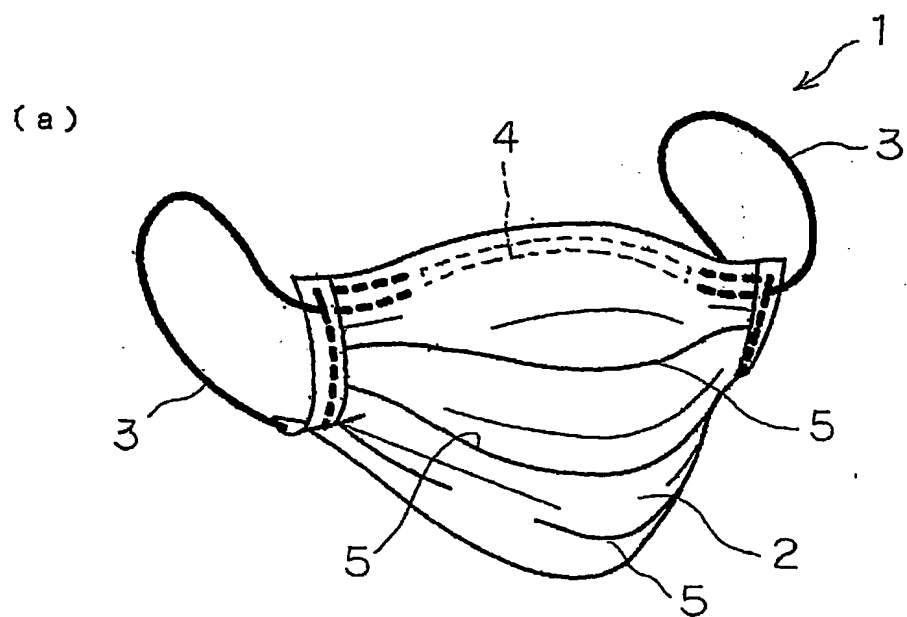


FIG. 9

